

Weekly COVID-19 Update in Montana (as of 9/17/2021)

This report is a weekly snapshot of COVID-19 activity in Montana. Data are analyzed based on information available as of September 17, 2021. Data are provisional and expected to change as more information is received.

Case Data

Table 1. Summary of COVID-19 Activity – Montana, as of 9/17/2021

	TOTAL	RECENT WEEK	PERCENT CHANGE FROM PREVIOUS WEEK
REPORTED CASES	140,910	6,309	+44%
LABORATORY TESTS	1,730,971	53,192	+57%
HOSPITALIZATIONS	6,989	358	+18%
DEATHS	1,887	48	+92%

Figure 1. COVID-19 Cases and Hospitalizations over Time - Montana, as of 9/17/2021

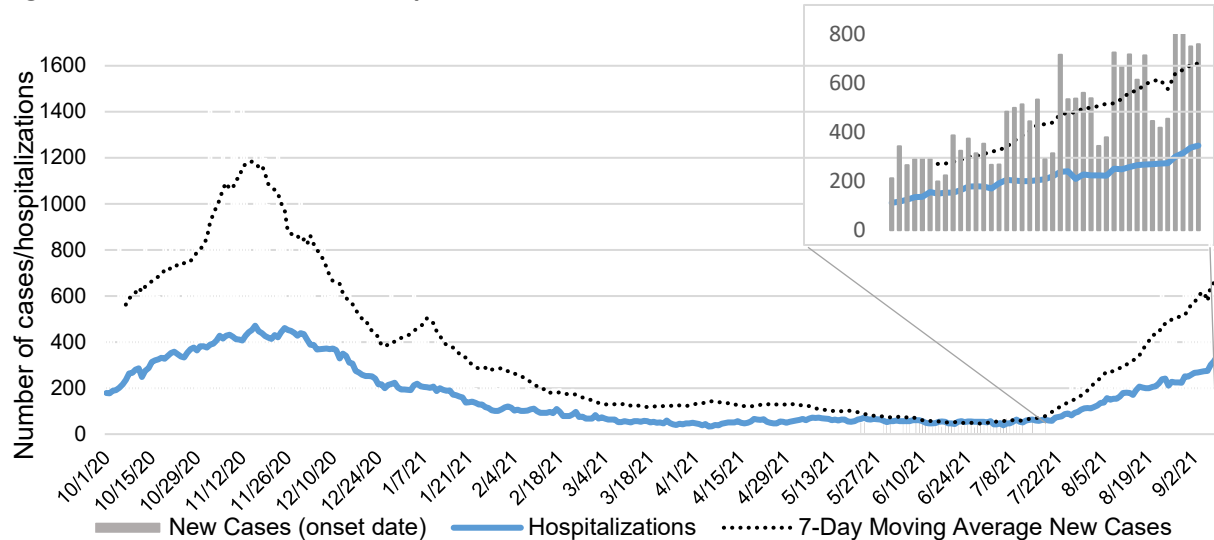
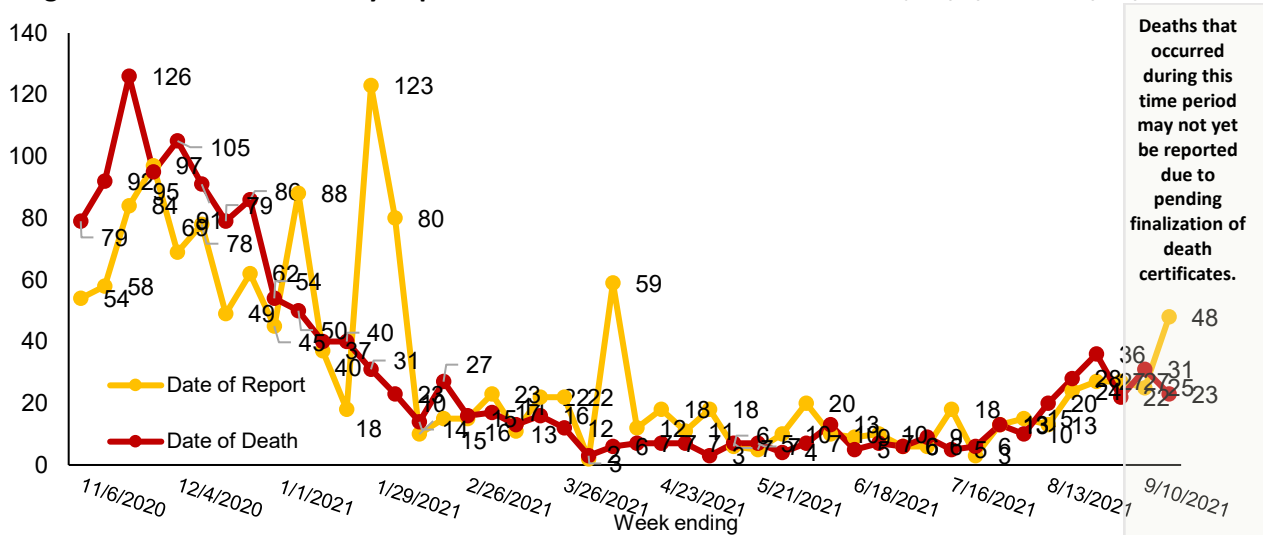


Figure 2. COVID-19 Deaths by Report Date and Date of Death – Montana, 11/1/2020 – 9/17/2021



Vaccine Data

Montana began vaccinating individuals in mid-December 2020 with a phased process: Phase 1A on December 14, 2020, Phase 1B on January 19, 2021, and Phase 1B+ on March 8, 2021. Vaccinations were opened to all Montanans age 16+ on April 1, 2021 and expanded to all Montanans age 12+ on May 10th, 2021. To date, 978,186 doses have been given across the state and 52% of the eligible population is considered fully vaccinated.

Table 2: COVID-19 Vaccine Doses Administered – Montana, as of 9/17/2021

	NUMBER	PERCENT OF ELIGIBLE POPULATION	WEEK ENDING 9/3	WEEK ENDING 9/10	WEEK ENDING 9/17*
TOTAL DOSES ADMINISTERED	978,186		12,490	10,941	9,731
DOSE 1 ADMINISTERED	535,228	58%	6,003	5,142	4,116
FULLY VACCINATED INDIVIDUALS	477,171	52%	5,244	4,961	4,814

*the data for the most recent week are preliminary and are expected to be an underestimate of the doses administered during the week, due to a reporting lag.

Figure 3. COVID-19 Vaccine Doses Administered by Week – Montana, as of 9/17/2021

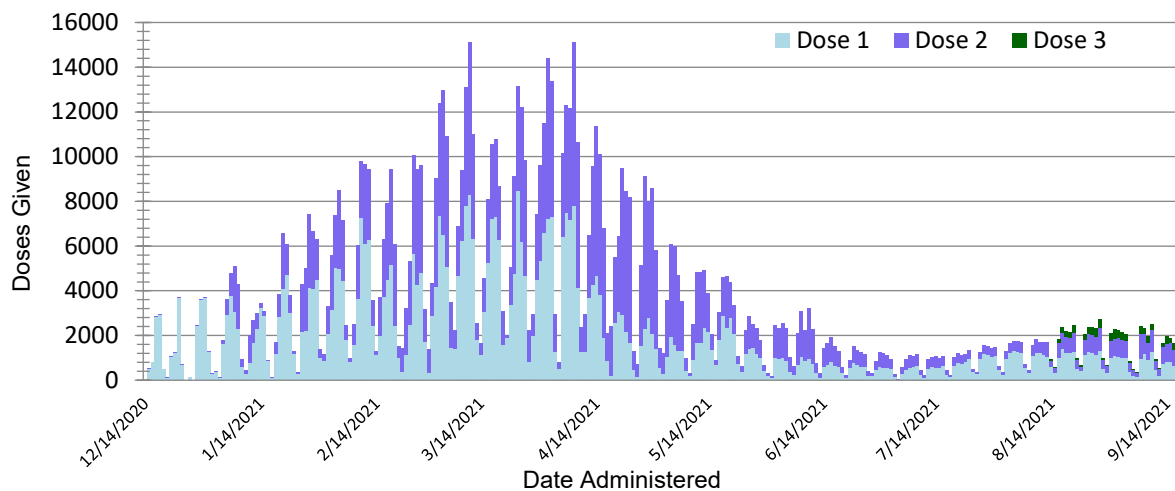
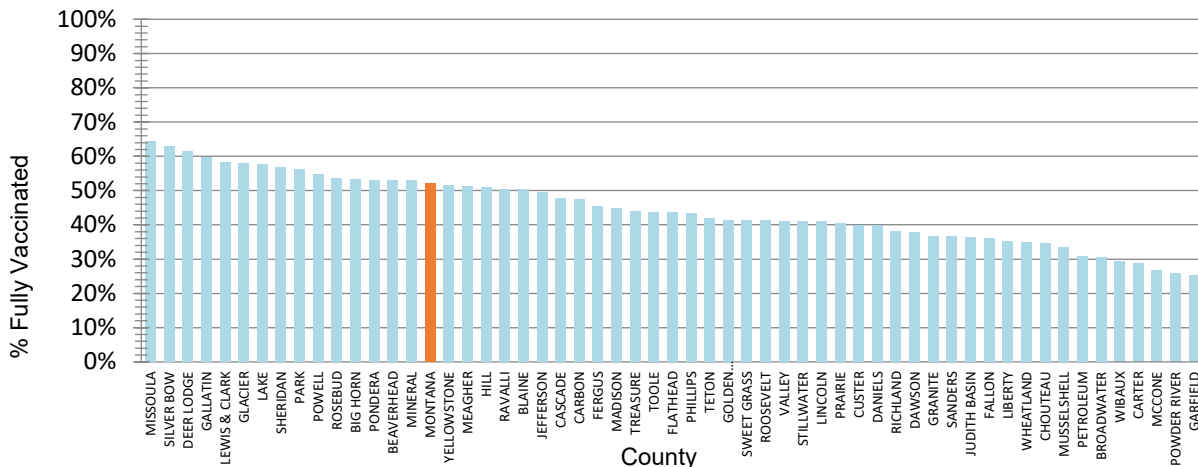


Figure 4. Percent of Eligible Montanans (12+ years) Fully Vaccinated by County – Montana, 9/17/2021



Variant and Breakthrough Cases

A variant has one or more mutations that differentiate it from other variants in circulation. Multiple variants of SARS-CoV-2 have been documented throughout this pandemic. There were 3,020 samples that were sequenced and reported to [GISAID](#) since January 2021. B.1.617.2 (Delta) has been the predominant variant in Montana in recent months. Of 784 specimens collected during the months of August and September that have been sequenced, 774 (99%) are Delta variant. All 166 samples collected and sequenced in September were resulted as Delta. Not all samples have enough genetic material to be sequenced. The charts below reflect information on specimens that were sequenced and reported to GISAID.

Figure 5. Number of COVID-19 samples sequenced by collection date, Montana 9/21/2021 [n=3,020]

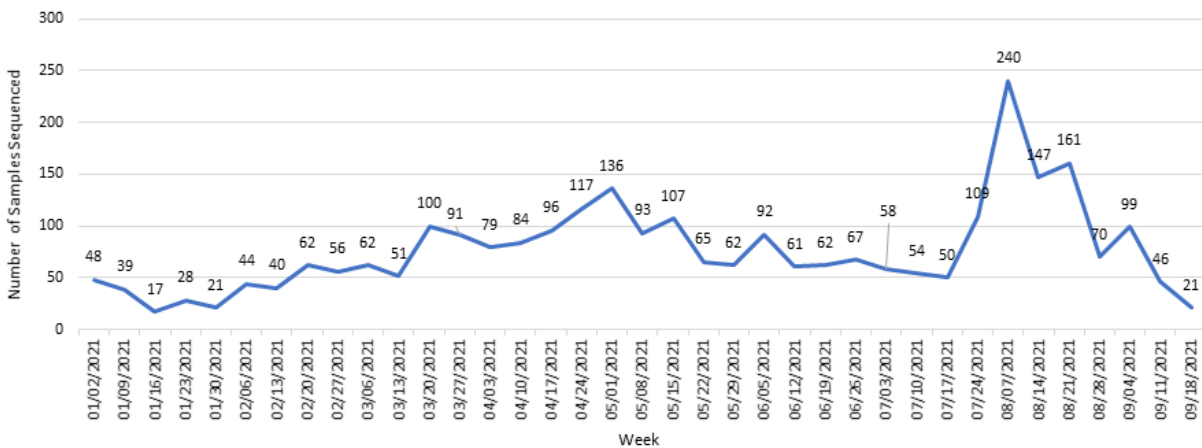
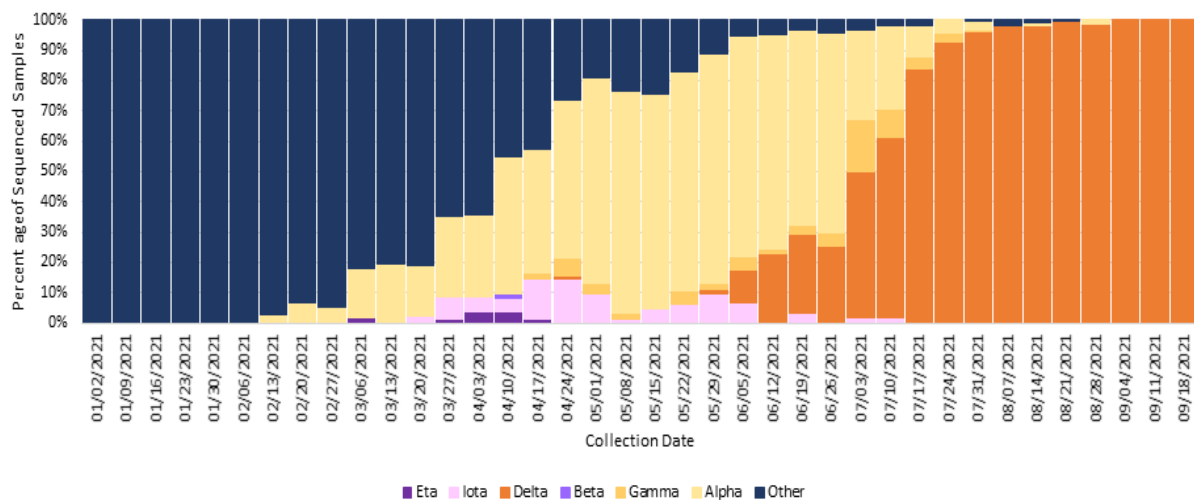


Figure 6. Percent of COVID-19 variants in sequenced samples by collection date, Montana 9/21/2021



A breakthrough COVID-19 infection is defined as a positive SARS-CoV-2 collected ≥ 14 days after completing the primary COVID-19 vaccine series of an FDA-authorized COVID-19 vaccine. Depending on the specific vaccine administered, completion of series could be one or two doses of vaccine. As of 9/21/21, Montana reports 5,131 cases of confirmed breakthrough disease, which includes 308 hospitalizations and 57 deaths. Of those with subtyping performed ($n=297$), 265 are known to be infected with variants of concern or interest.

Hospitalizations and Deaths and Vaccination Status

COVID-19-related hospitalizations and deaths were analyzed between **April 1 and September 17** to review vaccination status. Since the beginning of April this year, 87% of Montanans who were hospitalized and 79% of those who died were unvaccinated at the time of infection. Of the 2,144 individuals who were hospitalized during this time period, 27 (1%) were <18 years old, 371 (17%) were 18 to 44 years old, 751 (35%) were 45 to 64 years old and 995 (46%) were ≥65 years old.

Additionally, COVID-19-related hospitalization and death data from **July 24 – September 17** (last 8 weeks) were analyzed to review vaccination status. Eighty-two percent of Montanans who were hospitalized and 74% of those who died had not received a COVID-19 vaccine (Table 4). Of the 1,308 individuals who were hospitalized during this time period, 19 (1%) were <18 years old, 234 (18%) were 18 to 44 years old, 435 (33%) were 45 to 64 years old and 620 (47%) were ≥65 years old.

Table 3. Vaccination status of COVID-19 hospitalizations and deaths – April 1 to September 17, 2021

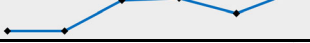
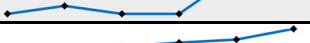
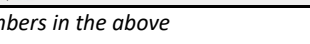
	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	2,144	269
UNVACCINATED	1,858 (87%)	212 (79%)
VACCINATED (BREAKTHROUGH CASE)	286 (13%)	57 (21%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-102 (61)	26-96 (72)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	24-98 (74)	53-96 (82)

Table 4. Vaccination status of COVID-19 hospitalizations and deaths – July 24 – September 17, 2021

	HOSPITALIZATIONS	DEATHS
TOTAL REPORTED	1,308	168
UNVACCINATED	1,079 (82%)	125 (74%)
VACCINATED (BREAKTHROUGH CASE)	229 (18%)	43 (26%)
UNVACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	<1-99(60)	26-96 (70)
VACCINATED AGE RANGE IN YEARS (MEDIAN AGE)	24-98 (74)	53-94 (83)

Reported COVID-19 Cases by County with Trendline – Montana, past 6 weeks

County	13 Aug	20 Aug	27 Aug	3 Sep	10 Sep	17 Sep	change from previous week*	Trendline
Beaverhead	4	19	12	27	21	99	78	
Big Horn	3	11	33	42	47	38	-9	
Blaine	4	16	23	30	12	25	13	
Broadwater	7	12	20	28	25	27	2	
Carbon	14	17	29	9	31	27	-4	
Carter	1	1	5	5	3	0	-3	
Cascade	223	339	310	521	302	643	341	
Chouteau	0	3	5	14	16	16	0	
Custer	15	32	28	46	53	136	83	
Daniels	0	1	0	2	5	6	1	
Dawson	15	29	33	24	24	51	27	
Deer Lodge	21	35	33	29	26	48	22	
Fallon	15	7	21	25	5	14	9	
Fergus	30	17	27	38	33	57	24	
Flathead	346	434	452	465	463	671	208	
Gallatin	166	179	237	331	435	634	199	
Garfield	1	9	10	1	0	2	2	
Glacier	11	31	27	43	54	75	21	
Golden Valley	1	1	1	0	1	3	2	
Granite	4	4	11	9	1	13	12	
Hill	27	31	88	117	70	157	87	
Jefferson	17	15	18	22	50	61	11	
Judith Basin	4	2	2	3	2	6	4	
Lake	48	81	95	97	94	179	85	
Lewis and Clark	113	104	215	245	320	311	-9	
Liberty	9	11	6	7	5	23	18	
Lincoln	55	55	85	167	196	265	69	
Madison	9	15	20	25	34	66	32	
McCone	4	4	8	4	3	2	-1	
Meagher	3	1	5	3	6	8	2	

County	13 Aug	20 Aug	27 Aug	3 Sep	10 Sep	17 Sep	change from previous week*	Trendline
Mineral	28	31	19	10	17	48	31	
Missoula	218	295	414	426	535	707	172	
Musselshell	5	5	6	19	12	29	17	
Park	26	46	29	34	58	72	14	
Petroleum	0	2	0	0	0	1	1	
Phillips	0	6	21	10	8	6	-2	
Pondera	9	13	15	7	22	40	18	
Powder River	1	3	5	8	6	8	2	
Powell	31	34	24	27	26	40	14	
Prairie	0	1	0	4	0	1	1	
Ravalli	42	80	105	99	172	190	18	
Richland	6	17	45	27	62	24	-38	
Roosevelt	7	15	27	25	25	29	4	
Rosebud	17	15	19	28	21	50	29	
Sanders	23	25	30	23	76	90	14	
Sheridan	5	4	4	4	0	10	10	
Silver Bow	40	102	70	99	98	177	79	
Stillwater	16	7	23	12	33	51	18	
Sweet Grass	5	3	2	15	8	27	19	
Teton	18	22	7	23	29	21	-8	
Toole	11	10	8	10	10	21	11	
Treasure	1	0	1	1	1	3	2	
Valley	5	5	19	20	13	23	10	
Wheatland	2	3	2	4	12	17	5	
Wibaux	1	2	1	1	6	4	-2	
Yellowstone	304	386	665	730	781	957	176	
MONTANA	1991	2648	3420	4045	4368	6309	1941	

*Note: Data are based on the date of report into the Montana Infectious Disease Information System (MIDIS). Underlined numbers in the above table reflect adjusted counts and may include cases diagnosed but not reported in earlier time frames. These adjustments result from local and state data reconciliation efforts, conducted to ensure accurate data.

County name	Eligible population 12+	Dose 1	Dose 2	Dose 3	Fully Immunized	Total Doses Administered	Percent eligible with first dose (12+)	Percent Fully Vaccinated (12+)
BEAVERHEAD	8,412	4,773	3,833	44	4,457	8,650	57%	53%
BIG HORN	10,303	6,330	5,241	48	5,498	11,619	61%	53%
BLAINE	5,359	3,055	2,519	35	2,691	5,609	57%	50%
BROADWATER	5,443	1,981	1,453	18	1,666	3,452	36%	31%
CARBON	9,621	4,880	4,290	60	4,564	9,230	51%	47%
CARTER	1,051	329	286	5	301	620	31%	29%
CASCADE	68,949	36,560	29,627	561	32,973	66,748	53%	48%
CHOUTEAU	4,903	1,913	1,540	15	1,697	3,468	39%	35%
CUSTER	9,855	4,368	3,505	39	3,937	7,912	44%	40%
DANIELS	1,454	633	534	5	579	1,172	44%	40%
DAWSON	7,410	3,052	2,551	24	2,810	5,627	41%	38%
DEER LODGE	8,375	5,576	4,601	82	5,140	10,259	67%	61%
FALLON	2,330	931	802	3	841	1,736	40%	36%
FERGUS	9,561	4,719	4,001	86	4,336	8,806	49%	45%
FLATHEAD	88,987	44,438	35,248	602	38,797	80,288	50%	44%
GALLATIN	99,225	69,888	54,050	534	59,143	124,472	70%	60%
GARFIELD	1,066	287	230	0	269	517	27%	25%
GLACIER	10,794	8,835	5,788	33	6,250	14,656	82%	58%
GOLDEN VALLEY	703	312	262	3	291	577	44%	41%
GRANITE	3,071	1,305	1,021	18	1,120	2,344	42%	36%
HILL	13,256	7,547	5,962	49	6,752	13,558	57%	51%
JEFFERSON	10,702	5,770	4,925	116	5,281	10,811	54%	49%
JUDITH BASIN	1,747	678	583	33	634	1,294	39%	36%
LAKE	25,868	16,666	13,843	199	14,905	30,708	64%	58%
LEWIS & CLARK	59,541	38,096	32,129	830	34,687	71,055	64%	58%
LIBERTY	2,022	764	621	30	713	1,415	38%	35%
LINCOLN	17,763	8,185	6,674	151	7,255	15,010	46%	41%
MADISON	7,777	3,835	3,105	33	3,492	6,973	49%	45%
MCCONE	1,440	406	379	1	386	786	28%	27%
MEAGHER	1,638	897	773	8	841	1,678	55%	51%
MINERAL	3,889	2,259	1,630	11	2,057	3,900	58%	53%
MISSOULA	104,911	73,138	62,039	940	67,383	136,117	70%	64%
MUSSELSHELL	4,097	1,482	1,203	27	1,367	2,712	36%	33%
PARK	14,746	9,665	7,474	99	8,284	17,238	66%	56%
PETROLEUM	433	137	125	1	133	263	32%	31%
PHILLIPS	3,331	1,573	1,168	12	1,443	2,753	47%	43%
PONDERA	4,931	3,046	2,284	41	2,614	5,371	62%	53%
POWDER RIVER	1,510	427	351	4	391	782	28%	26%
POWELL	6,230	3,758	2,752	51	3,416	6,561	60%	55%
PRAIRIE	931	410	359	2	376	771	44%	40%
RAVALLI	38,686	21,119	17,410	439	19,462	38,968	55%	50%
RICHLAND	8,978	3,694	2,903	48	3,412	6,645	41%	38%
ROOSEVELT	8,436	4,112	3,058	6	3,471	7,176	49%	41%
ROSEBUD	7,211	4,510	3,450	29	3,874	7,989	63%	54%
SANDERS	10,768	4,320	3,715	34	3,926	8,069	40%	36%
SHERIDAN	2,847	1,697	1,496	12	1,613	3,205	60%	57%
SILVER BOW	30,125	20,810	17,910	448	18,979	39,168	69%	63%
STILLWATER	8,428	3,763	2,988	45	3,462	6,796	45%	41%
SWEET GRASS	3,273	1,490	1,148	12	1,350	2,650	46%	41%
TETON	5,160	2,601	1,767	16	2,156	4,384	50%	42%
TOOLE	4,055	1,931	1,443	40	1,776	3,414	48%	44%
TREASURE	584	332	238	1	256	571	57%	44%
VALLEY	6,313	2,797	2,271	41	2,594	5,109	44%	41%
WHEATLAND	1,823	681	602	7	638	1,290	37%	35%
WIBAUX	834	285	238	1	245	524	34%	29%
YELLOWSTONE	136,442	78,182	65,152	1,376	70,187	144,710	57%	51%
MONTANA	917,598	535,228	435,550	7,408	477,171	978,186	58%	52%